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	Time	Result
#38 Search chlorin e6 trimethyl ester	12:37:45	3
#32 Search purpurinimide	12:30:37	5
#33 Search #32 and #20	12:25:13	4
#28 Search #26 and #20	12:16:54	4
#27 Search purpurin-18	11:56:52	9
#26 Search purpurin 18	11:56:37	9
#25 Search #24 and #20	11:56:22	13
#24 Search purpurin	11:56:06	82
#21 Search #20 and #17	11:55:30	2
#20 Search #19 or #2	11:53:29	539910
#19 Search preparation	11:53:16	151475
#17 Search methyl pheophorbide a	11:51:00	9
#16 Search pheophorbide a	11:50:50	92
#15 Search pheophorbide	11:50:41	125
#3 Search #1 and #2	10:36:12	17
#2 Search synthesis	10:19:27	400022
#1 Search pyropheophorbide	10:19:02	65

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Jan 24 2005 13:04:36

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Welcome to STN International! Enter x:x

LOGINID:sssptamlf1623

PASSWORD:

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NEWS 4 OCT 28 KOREAPAT now available on STN
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NEWS 8 DEC 15 MEDLINE update schedule for December 2004
NEWS 9 DEC 17 ELCOM reloaded; updating to resume; current-awareness
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NEWS 10 DEC 17 COMPUAB reloaded; updating to resume; current-awareness
alerts (SDIs) affected
NEWS 11 DEC 17 SOLIDSTATE reloaded; updating to resume; current-awareness
alerts (SDIs) affected
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alerts (SDIs) affected
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NEWS 16 JAN 03 No connect-hour charges in EPFULL during January and
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NEWS 17 JAN 11 CA/CAPLUS - Expanded patent coverage to include Russia
(Federal Institute of Industrial Property)

NEWS EXPRESS JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005

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NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
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FILE 'HOME' ENTERED AT 11:22:37 ON 25 JAN 2005

=> file registry

COST IN U.S. DOLLARS

SINCE FILE
ENTRY
0.42

TOTAL
SESSION
0.42

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 11:23:41 ON 25 JAN 2005
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DICTIONARY FILE UPDATES: 23 JAN 2005 HIGHEST RN 819046-01-0

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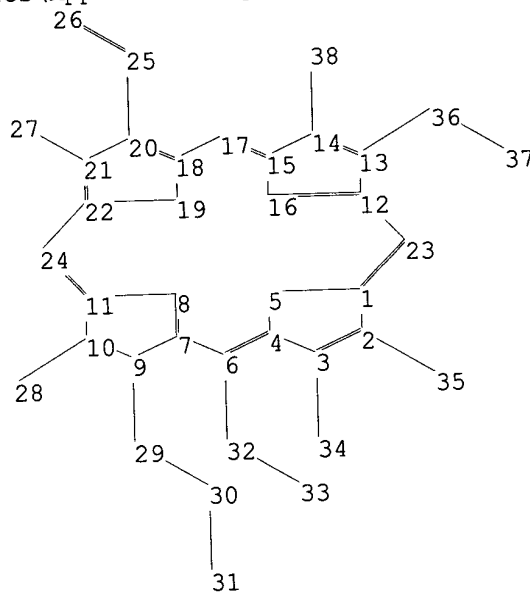
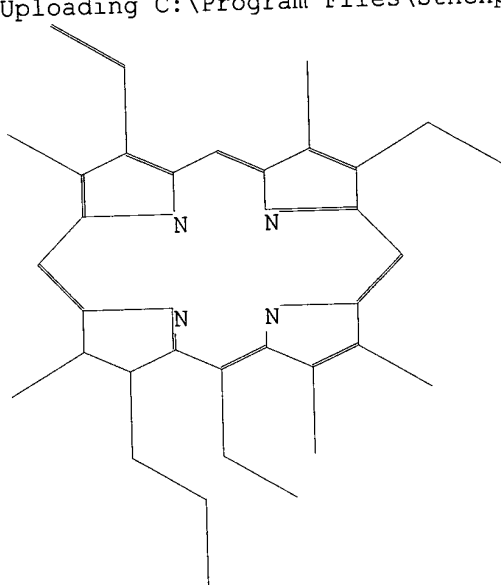
Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=>

Uploading C:\Program Files\Stnexp\Queries\Application queries\10613474.str



chain nodes :

25 26 27 28 29 30 31 32 33 34 35 36 37 38

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
24

chain bonds :

2-35 3-34 6-32 9-29 10-28 13-36 14-38 20-25 21-27 25-26 29-30 30-31
32-33 36-37

ring bonds :
 1-2 1-5 1-23 2-3 3-4 4-5 4-6 6-7 7-8 7-9 8-11 9-10 10-11 11-24 12-13
 12-16 12-23 13-14 14-15 15-16 15-17 17-18 18-19 18-20 19-22 20-21 21-22
 22-24
 exact/norm bonds :
 1-5 4-5 7-9 9-10 10-11 12-13 13-14 14-15 18-19 19-22
 exact bonds :
 2-35 3-34 6-32 9-29 10-28 13-36 14-38 20-25 21-27 25-26 29-30 30-31
 32-33 36-37
 normalized bonds :
 1-2 1-23 2-3 3-4 4-6 6-7 7-8 8-11 11-24 12-16 12-23 15-16 15-17 17-18
 18-20 20-21 21-22 22-24

Match level :
 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:CLASS 28:Atom
 29:Atom 30:Atom 31:Atom 32:CLASS 33:Atom 34:Atom 35:Atom 36:Atom 37:Atom
 38:Atom

L1 STRUCTURE UPLOADED

=> que L1

L2 QUE L1

=> s l2 sss full
 FULL SEARCH INITIATED 11:24:14 FILE 'REGISTRY'
 FULL SCREEN SEARCH COMPLETED - 1197 TO ITERATE

519 ANSWERS

100.0% PROCESSED 1197 ITERATIONS
 SEARCH TIME: 00.00.01

L3 519 SEA SSS FUL L1

=> file registry	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
	161.33	161.75
FULL ESTIMATED COST		

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 information enter HELP PROP at an arrow prompt in the file or refer
 to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

```
=> scan 13
ENTER FIELD CODE (BI):
ENTER FIELD CODE (BI):
ENTER FIELD CODE (BI):end
```

	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	0.43	162.18

FILE 'CASREACT' ENTERED AT 11:25:06 ON 25 JAN 2005
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FILE CONTENT:1840 - 23 Jan 2005 VOL 142 ISS 4

```
*****
*
*   CASREACT now has more than 8 million reactions
*
*****
```

Some CASREACT records are derived from the ZIC/VINITI database (1974-1991) provided by InfoChem, INPI data prior to 1986, and Biotransformations database compiled under the direction of Professor Dr. Klaus Kieslich.

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s 12 sss full
FULL SEARCH INITIATED 11:25:16 FILE 'CASREACT'
SCREENING COMPLETE - 342 REACTIONS TO VERIFY FROM 47 DOCUMENTS

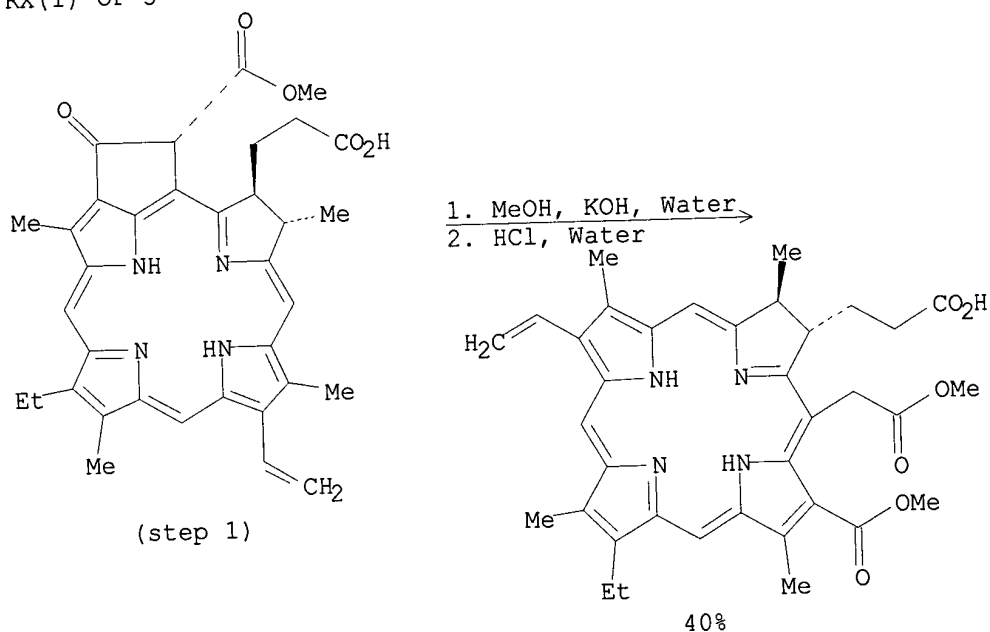
100.0% DONE 342 VERIFIED 84 HIT RXNS 14 DOCS
SEARCH TIME: 00.00.01
```

L4 14 SEA SSS FUL L1 (84 REACTIONS)

```
=> d 14 1-14
```

L4 ANSWER 1 OF 14 CASREACT COPYRIGHT 2005 ACS on STN

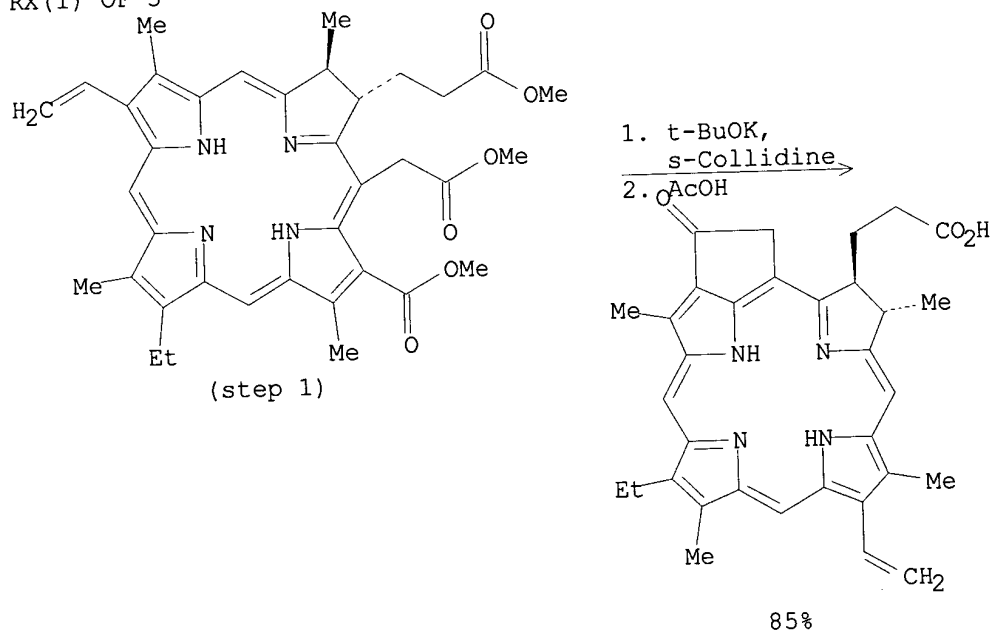
RX(1) OF 5



REF: Zhongguo Yiyao Gongye Zazhi, 34(8), 371-372; 2003

L4 ANSWER 2 OF 14 CASREACT COPYRIGHT 2005 ACS on STN

RX(1) OF 3

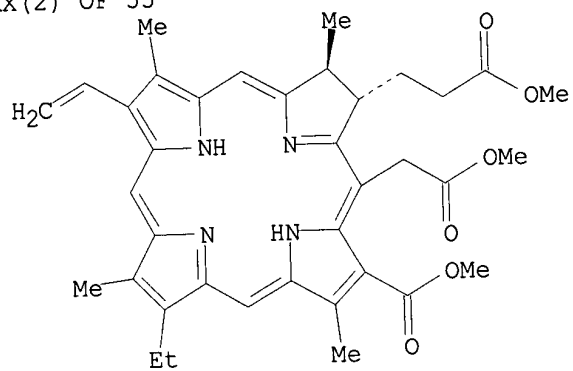


REF: Organic Process Research & Development, 8(2), 287-290; 2004

NOTE: third stage thermal

L4 ANSWER 3 OF 14 CASREACT COPYRIGHT 2005 ACS on STN

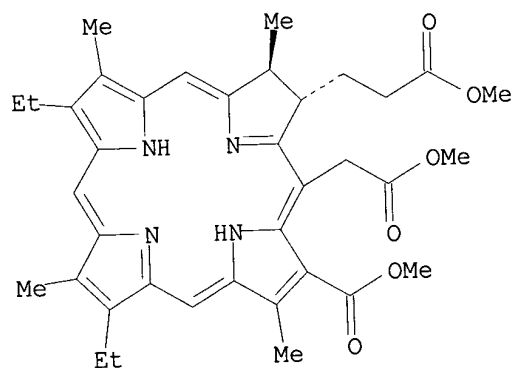
RX(2) OF 55



(step 1)

1. $\text{Zn}(\text{OAc})_2$, CH_2Cl_2 , MeOH
2. Pd , Et_3N , H_2 , THF
3. $\text{F}_3\text{CCO}_2\text{H}$

RX(2) OF 55

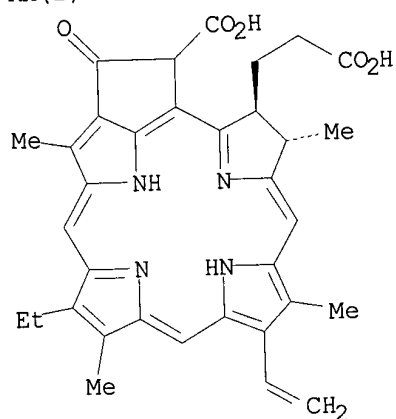


96%

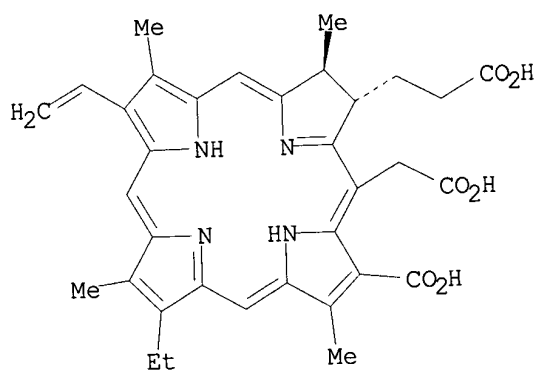
REF: Journal of Medicinal Chemistry, 46(25), 5349-5359; 2003

L4 ANSWER 4 OF 14 CASREACT COPYRIGHT 2005 ACS on STN

RX(2) OF 10



$\xrightarrow{\text{KOH, MeOH}}$



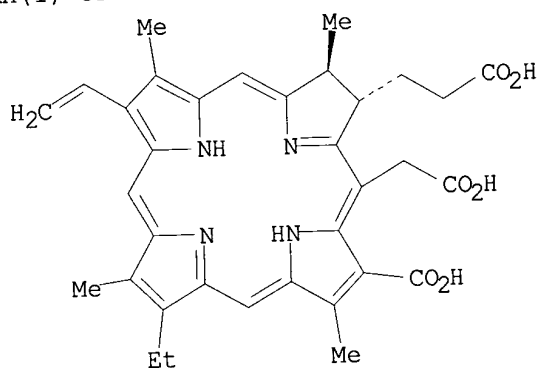
REF: Khimiya Rastitel'nogo Syr'ya, (2), 85-88; 2002

L4 ANSWER 5 OF 14 CASREACT COPYRIGHT 2005 ACS on STN

RX(1) OF 15 - REACTION DIAGRAM NOT AVAILABLE

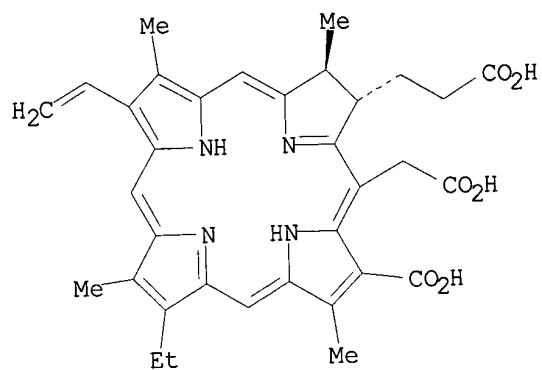
L4 ANSWER 6 OF 14 CASREACT COPYRIGHT 2005 ACS on STN

RX(1) OF 1



$\xrightarrow{\text{R:75621-03-3, Na2HPO4, KH2PO4, R:83382-89-2, EDAP, Water}}$

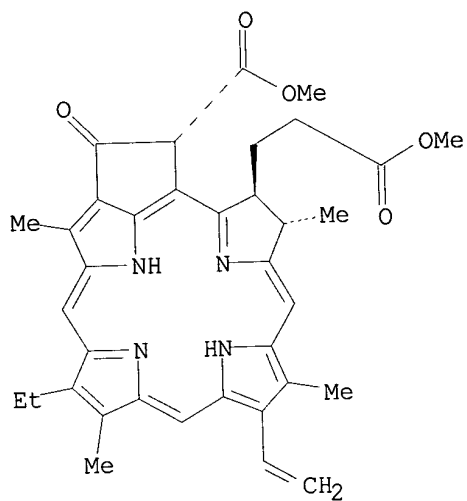
RX(1) OF 1



REF: Breast Cancer Research and Treatment, 72(2), 117-130; 2002
NOTE: biotransformation, iron-satd. human transferrin used, described medium

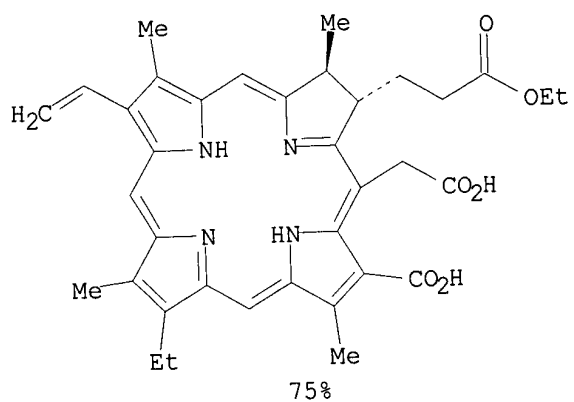
L4 ANSWER 7 OF 14 CASREACT COPYRIGHT 2005 ACS on STN

RX(1) OF 72



KOH, Me2CO, Water →

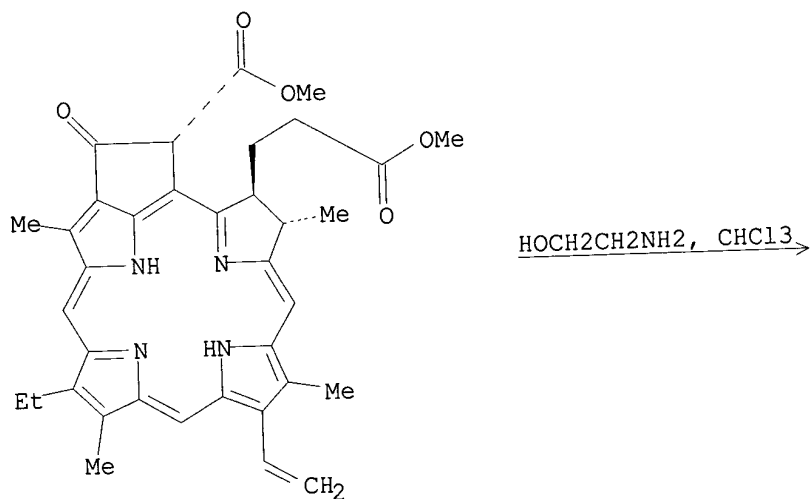
RX(1) OF 72



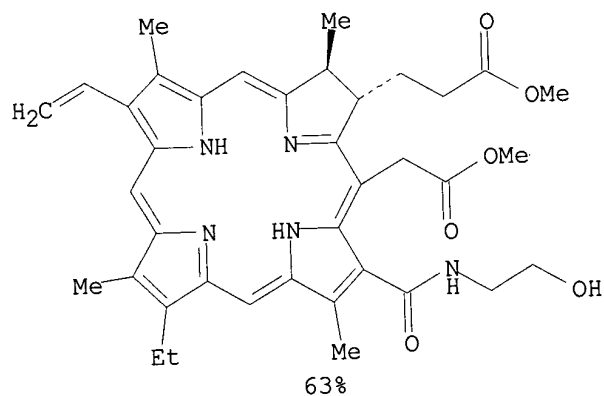
REF: PCT Int. Appl., 2002098882, 12 Dec 2002

L4 ANSWER 8 OF 14 CASREACT COPYRIGHT 2005 ACS on STN

RX(1) OF 3



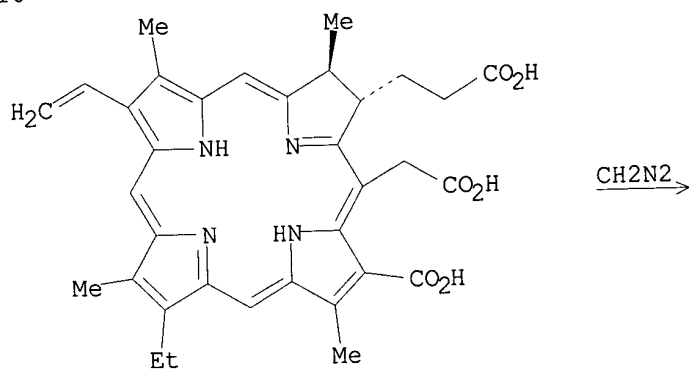
RX(1) OF 3



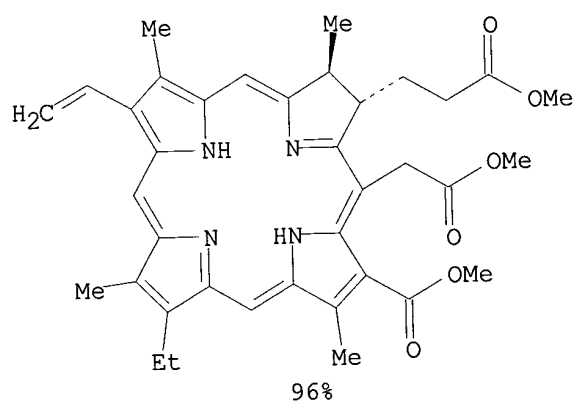
REF: Mendeleev Communications, (2), 77-78; 2002

L4 ANSWER 9 OF 14 CASREACT COPYRIGHT 2005 ACS on STN

RX(1) OF 16



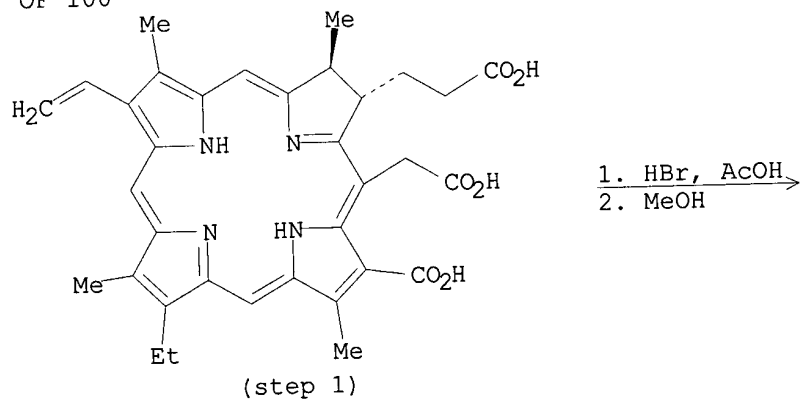
RX(1) OF 16



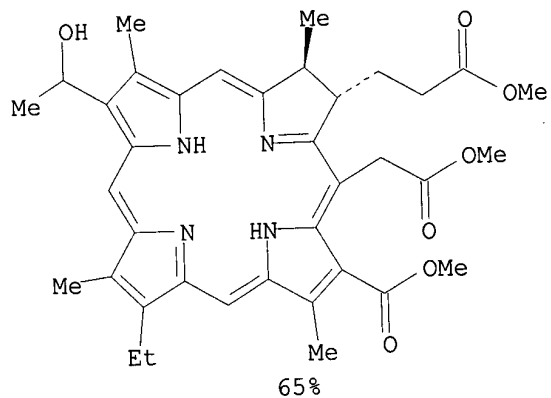
REF: Bioorganic & Medicinal Chemistry, 10(3), 583-591; 2002

L4 ANSWER 10 OF 14 CASREACT COPYRIGHT 2005 ACS on STN

RX(28) OF 100



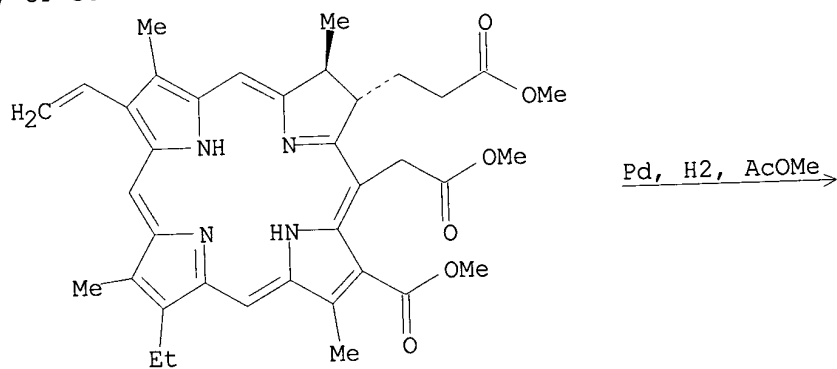
RX(28) OF 100



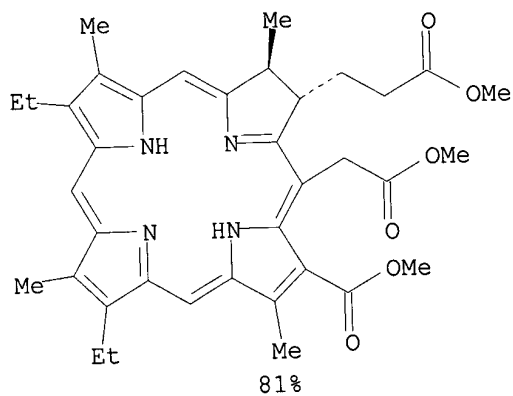
REF: Chemistry of Heterocyclic Compounds (New York, NY, United States) (Translation of Khimiya Geterotsiklicheskikh Soedinenii), 37(2), 191-201; 2001

L4 ANSWER 11 OF 14 CASREACT COPYRIGHT 2005 ACS on STN

RX(5) OF 38



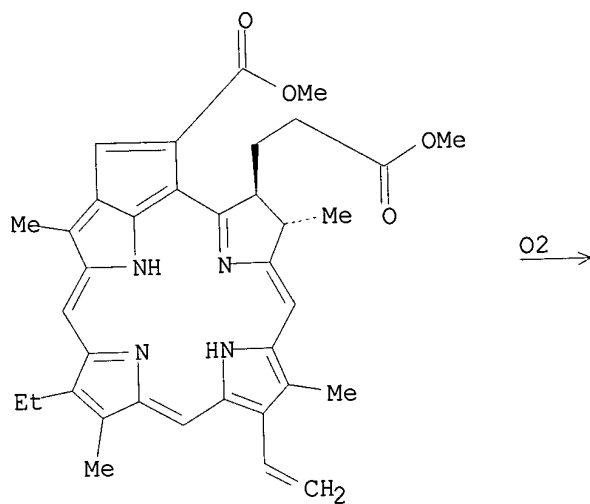
RX(5) OF 38



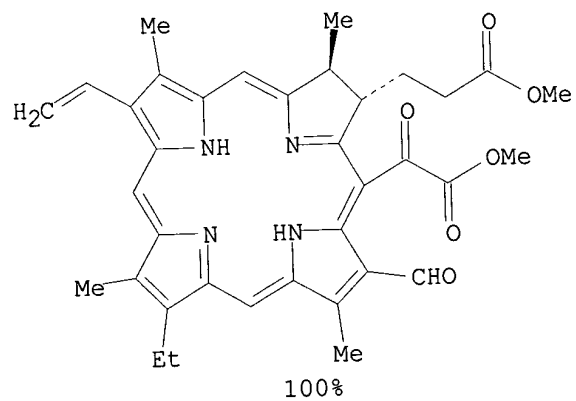
REF: Journal of Organic Chemistry, 63(7), 2314-2320; 1998

L4 ANSWER 12 OF 14 CASREACT COPYRIGHT 2005 ACS on STN

RX(2) OF 6



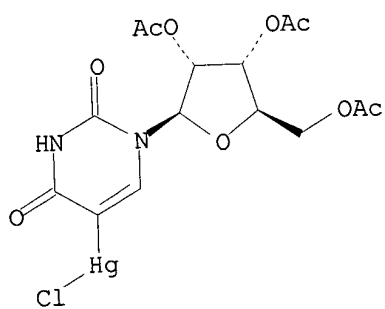
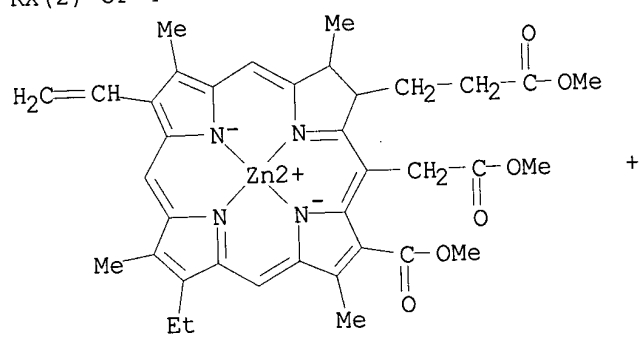
RX(2) OF 6



REF: Tetrahedron Letters, 36(43), 7791-4; 1995
NOTE: PHOTOCHEM.

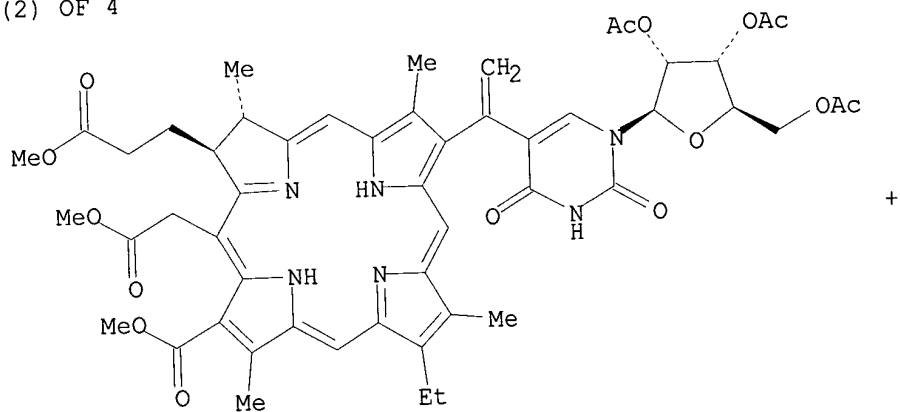
L4 ANSWER 13 OF 14 CASREACT COPYRIGHT 2005 ACS on STN

RX(2) OF 4

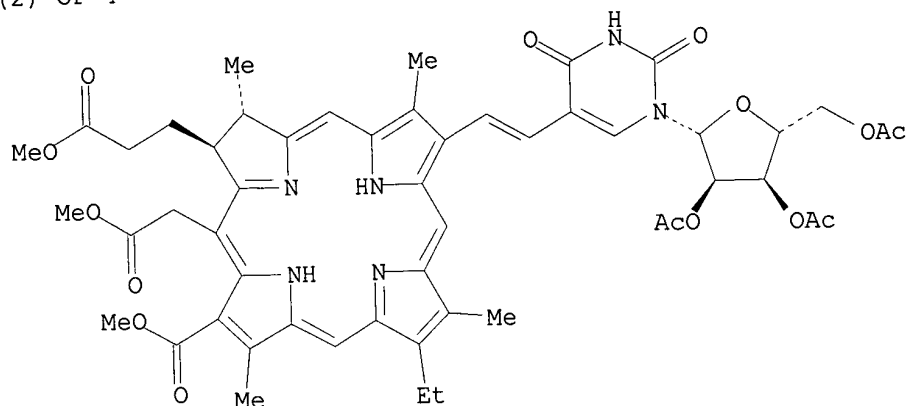


R: 22587-92-4, DMF,
MeCN

RX(2) OF 4



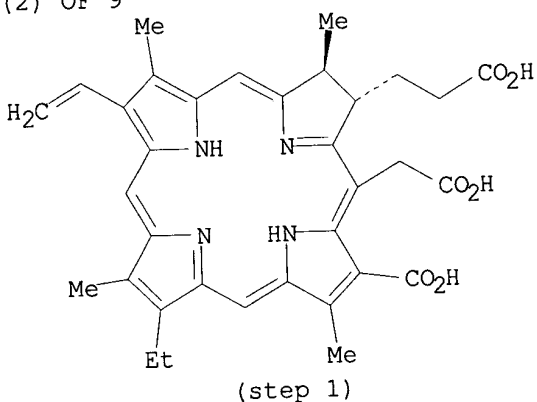
RX(2) OF 4



REF: Tetrahedron Letters, 36(3), 365-8; 1995
 NOTE: 40% OVERALL (2.2:1, TRANS:GEM)

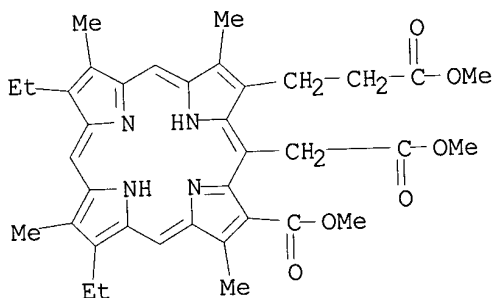
L4 ANSWER 14 OF 14 CASREACT COPYRIGHT 2005 ACS on STN

RX(2) OF 9



1. CH₂N₂,
 R:12125-09-6, HI,
 AcOH
 2. Et₂O

RX(2) OF 9



REF: Liebigs Annalen der Chemie, (9), 835-40; 1990

=> file registry
 COST IN U.S. DOLLARS
 FULL ESTIMATED COST

SINCE FILE
 ENTRY
 142.10

TOTAL
 SESSION
 304.28

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DICTIONARY FILE UPDATES: 23 JAN 2005 HIGHEST RN 819046-01-0

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<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

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Welcome to STN International! Enter x:x

LOGINID:sssptamlf1623

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS	3	SEP 01	New pricing for the Save Answers for SciFinder Wizard within STN Express with Discover!
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NEWS	8	DEC 15	MEDLINE update schedule for December 2004
NEWS	9	DEC 17	ELCOM reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	10	DEC 17	COMPUAB reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	11	DEC 17	SOLIDSTATE reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	12	DEC 17	CERAB reloaded; updating to resume; current-awareness alerts (SDIs) affected
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NEWS	15	DEC 30	CAPLUS - PATENT COVERAGE EXPANDED
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NEWS EXPRESS JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005

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NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 11:48:11 ON 25 JAN 2005

=> file resitry

'RESITRY' IS NOT A VALID FILE NAME

SESSION CONTINUES IN FILE 'HOME'

Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files
that are available. If you have requested multiple files, you can
specify a corrected file name or you can enter "IGNORE" to continue
accessing the remaining file names entered.

=> file registry

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 11:48:28 ON 25 JAN 2005

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DICTIONARY FILE UPDATES: 23 JAN 2005 HIGHEST RN 819046-01-0

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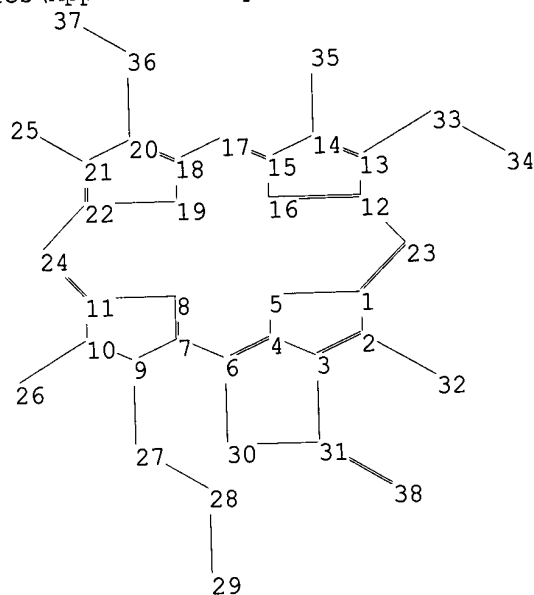
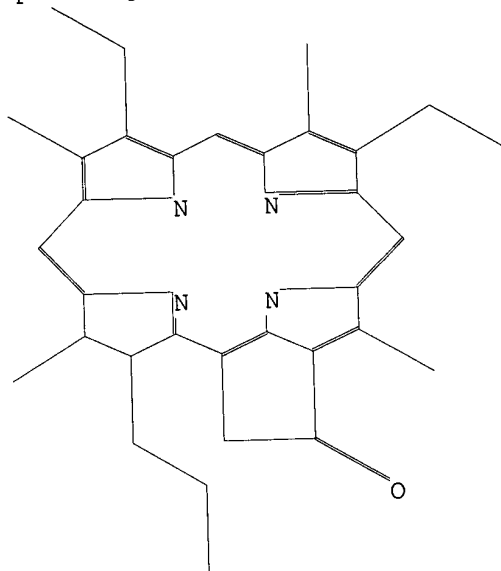
Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=>

Uploading C:\Program Files\Stnexp\Queries\Application queries\10613474b.str



```

chain nodes :
25 26 27 28 29 32 33 34 35 36 37 38
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
24 30 31
chain bonds :
2-32 9-27 10-26 13-33 14-35 20-36 21-25 27-28 28-29 31-38 33-34 36-37
ring bonds :
1-2 1-5 1-23 2-3 3-4 3-31 4-5 4-6 6-7 6-30 7-8 7-9 8-11 9-10 10-11
11-24 12-13 12-16 12-23 13-14 14-15 15-16 15-17 17-18 18-19 18-20 19-22
20-21 21-22 22-24 30-31
exact/norm bonds :
1-5 3-31 4-5 6-30 7-9 9-10 10-11 12-13 13-14 14-15 18-19 19-22 30-31
31-38
exact bonds :
2-32 9-27 10-26 13-33 14-35 20-36 21-25 27-28 28-29 33-34 36-37
normalized bonds :
1-2 1-23 2-3 3-4 4-6 6-7 7-8 8-11 11-24 12-16 12-23 15-16 15-17 17-18
18-20 20-21 21-22 22-24

```

```

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:CLASS 26:Atom 27:Atom 28:Atom
29:Atom 30:CLASS 31:Atom 32:Atom 33:Atom 34:Atom 35:Atom 36:CLASS 37:CLASS
38:CLASS

```

L1 STRUCTURE UPLOADED

=> que L1

L2 QUE L1

```

=> s 12 sss full
FULL SEARCH INITIATED 11:49:00 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 4822 TO ITERATE

```

100.0% PROCESSED 4822 ITERATIONS
SEARCH TIME: 00.00.01

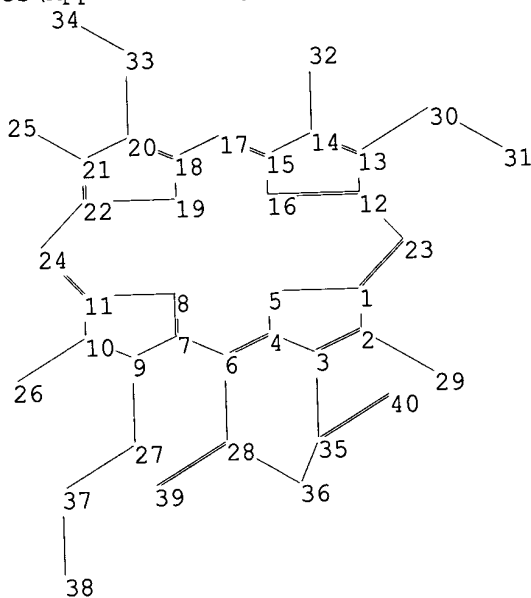
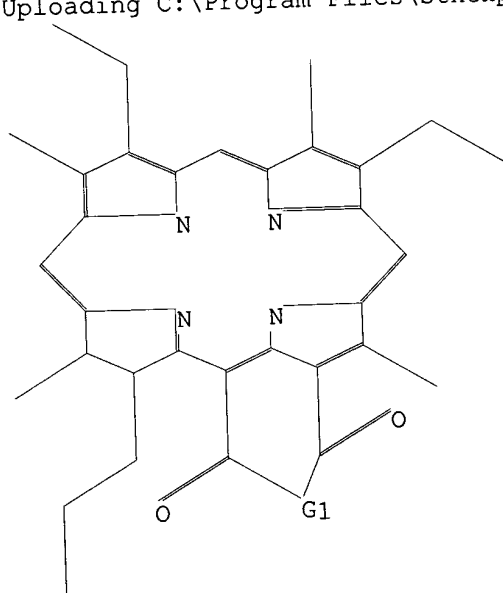
791 ANSWERS

L3 791 SEA SSS FUL L1

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=>
Uploading C:\Program Files\Stnexp\Queries\Application queries\10613474c.str



chain nodes :
25 26 27 29 30 31 32 33 34 37 38 39 40

ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
24 28 35 36

chain bonds :
2-29 9-27 10-26 13-30 14-32 20-33 21-25 27-37 28-39 30-31 33-34 35-40
37-38

ring bonds :
1-2 1-5 1-23 2-3 3-4 3-35 4-5 4-6 6-7 6-28 7-8 7-9 8-11 9-10 10-11
11-24 12-13 12-16 12-23 13-14 14-15 15-16 15-17 17-18 18-19 18-20 19-22
20-21 21-22 22-24 28-36 35-36

exact/norm bonds :
1-5 2-29 3-35 4-5 6-28 7-9 9-10 9-27 10-11 10-26 12-13 13-14 13-30
14-15 14-32 18-19 19-22 20-33 21-25 27-37 28-36 28-39 30-31 33-34 35-36
35-40 37-38

normalized bonds :
1-2 1-23 2-3 3-4 4-6 6-7 7-8 8-11 11-24 12-16 12-23 15-16 15-17 17-18
18-20 20-21 21-22 22-24

G1:O,N

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:CLASS 26:Atom 27:Atom 28:CLASS
29:Atom 30:Atom 31:Atom 32:Atom 33:CLASS 34:CLASS 35:Atom 36:Atom 37:CLASS
38:CLASS 39:CLASS 40:CLASS

L4 STRUCTURE UPLOADED

=> que L4

L5 QUE L4

=> s 15 sss full

FULL SEARCH INITIATED 11:49:31 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 384 TO ITERATE

100.0% PROCESSED 384 ITERATIONS
SEARCH TIME: 00.00.01

103 ANSWERS

L6 103 SEA SSS FUL L4

=> file registry
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
322.66	322.87

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 11:49:38 ON 25 JAN 2005
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STRUCTURE FILE UPDATES: 23 JAN 2005 HIGHEST RN 819046-01-0
DICTIONARY FILE UPDATES: 23 JAN 2005 HIGHEST RN 819046-01-0

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

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Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:sssptamlf1623

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS	1	Web Page URLs for STN Seminar Schedule - N. America
NEWS	2	"Ask CAS" for self-help around the clock
NEWS	3	SEP 01 New pricing for the Save Answers for SciFinder Wizard within

STN Express with Discover!

NEWS	4	OCT 28	KOREAPAT now available on STN
NEWS	5	NOV 30	PHAR reloaded with additional data
NEWS	6	DEC 01	LISA now available on STN
NEWS	7	DEC 09	12 databases to be removed from STN on December 31, 2004
NEWS	8	DEC 15	MEDLINE update schedule for December 2004
NEWS	9	DEC 17	ELCOM reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	10	DEC 17	COMPUAB reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	11	DEC 17	SOLIDSTATE reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	12	DEC 17	CERAB reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	13	DEC 17	THREE NEW FIELDS ADDED TO IFIPAT/IFIUDB/IFICDB
NEWS	14	DEC 30	EPFULL: New patent full text database to be available on STN
NEWS	15	DEC 30	CAPLUS - PATENT COVERAGE EXPANDED
NEWS	16	JAN 03	No connect-hour charges in EPFULL during January and February 2005
NEWS	17	JAN 11	CA/CAPLUS - Expanded patent coverage to include Russia (Federal Institute of Industrial Property)

NEWS EXPRESS JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 13:36:00 ON 25 JAN 2005

=> file registry	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
	0.21	0.21
FULL ESTIMATED COST		

FILE 'REGISTRY' ENTERED AT 13:36:05 ON 25 JAN 2005
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STRUCTURE FILE UPDATES: 23 JAN 2005 HIGHEST RN 819046-01-0
 DICTIONARY FILE UPDATES: 23 JAN 2005 HIGHEST RN 819046-01-0

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

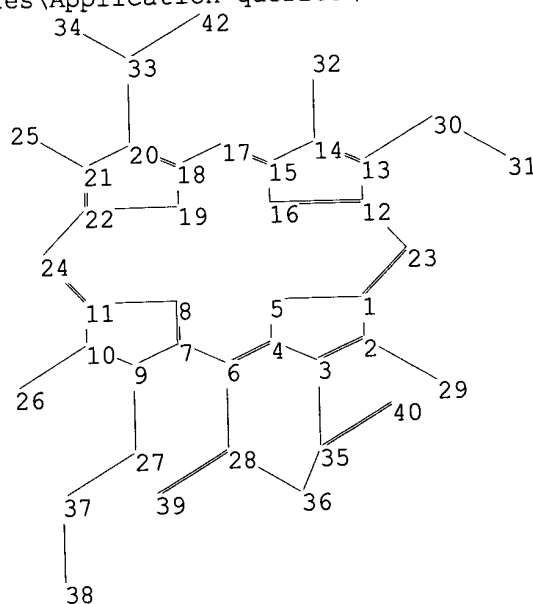
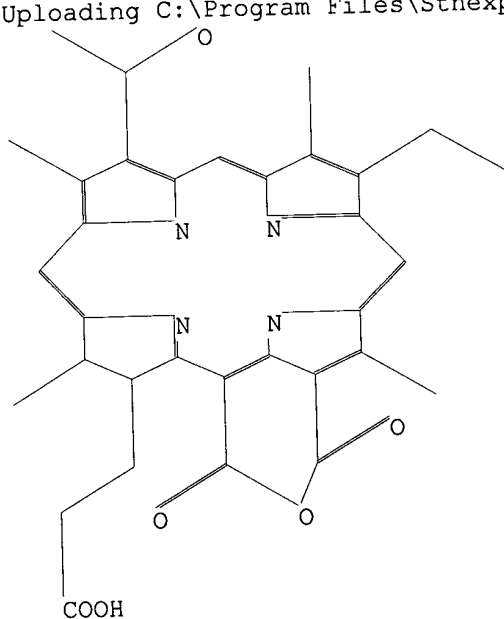
=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 2076

L1 SCREEN CREATED

=>
Uploading C:\Program Files\Stnexp\Queries\Application queries\10613474d.str



chain nodes :
25 26 27 29 30 31 32 33 34 37 38 39 40 42

ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
24 28 35 36

chain bonds :
2-29 9-27 10-26 13-30 14-32 20-33 21-25 27-37 28-39 30-31 33-34 33-42
35-40 37-38

ring bonds :
1-2 1-5 1-23 2-3 3-4 3-35 4-5 4-6 6-7 6-28 7-8 7-9 8-11 9-10 10-11
11-24 12-13 12-16 12-23 13-14 14-15 15-16 15-17 17-18 18-19 18-20 19-22
20-21 21-22 22-24 28-36 35-36

exact/norm bonds :
1-5 3-35 4-5 6-28 7-9 9-10 10-11 12-13 13-14 14-15 18-19 19-22 28-36
28-39 33-42 35-36 35-40

exact bonds :
2-29 9-27 10-26 13-30 14-32 20-33 21-25 27-37 30-31 33-34 37-38

normalized bonds :
1-2 1-23 2-3 3-4 4-6 6-7 7-8 8-11 11-24 12-16 12-23 15-16 15-17 17-18
18-20 20-21 21-22 22-24

G1:O,N

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:CLASS 26:Atom 27:Atom 28:CLASS
29:Atom 30:Atom 31:Atom 32:Atom 33:CLASS 34:CLASS 35:Atom 36:Atom 37:CLASS
38:CLASS 39:CLASS 40:CLASS 42:CLASS

L2 STRUCTURE UPLOADED

=> que L2 AND L1

L3 QUE L2 AND L1

=> s l2 sss full
FULL SEARCH INITIATED 13:36:31 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 541 TO ITERATE

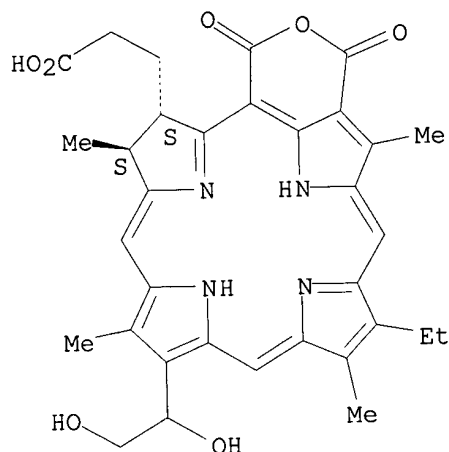
100.0% PROCESSED 541 ITERATIONS 3 ANSWERS
SEARCH TIME: 00.00.01

L4 3 SEA SSS FUL L2

=> d l4

L4 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2005 ACS on STN
RN 179185-48-9 REGISTRY
CN 15H-9,12-Imino-21,2-metheno-4,7:17,14-dinitrilopyrano[4,3-
b]azacyclononadecine-16-propanoic acid, 10-(1,2-dihydroxyethyl)-5-ethyl-
1,16,18,20-tetrahydro-6,11,15,22-tetramethyl-18,20-dioxo-, (15S,16S)-
(9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 21H,23H-Porphine-2,20-dicarboxylic acid, 18-(2-carboxyethyl)-12-(1,12-
dihydroxyethyl)-7-ethyl-17,18-dihydro-3,8,13,17-tetramethyl-, cyclic 2-20
anhydride
FS STEREOSEARCH
MF C33 H34 N4 O7
SR CA
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties); RACT
(Reactant or reagent)

Absolute stereochemistry.



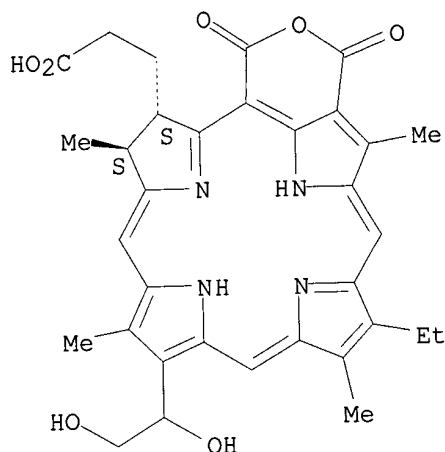
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d 14 1-3

L4 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2005 ACS on STN
RN 179185-48-9 REGISTRY
CN 15H-9,12-Imino-21,2-metheno-4,7:17,14-dinitrilopyrano[4,3-
b]azacyclononadecine-16-propanoic acid, 10-(1,2-dihydroxyethyl)-5-ethyl-
1,16,18,20-tetrahydro-6,11,15,22-tetramethyl-18,20-dioxo-, (15S,16S)-
(9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 21H,23H-Porphine-2,20-dicarboxylic acid, 18-(2-carboxyethyl)-12-(1,12-
dihydroxyethyl)-7-ethyl-17,18-dihydro-3,8,13,17-tetramethyl-, cyclic 2-20
anhydride
FS STEREOSEARCH
MF C33 H34 N4 O7
SR CA
LC STN Files: CA, CAPLUS
DT.CA Caplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties); RACT
(Reactant or reagent)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2005 ACS on STN

RN 166663-14-5 REGISTRY

CN 15H-9,12-Imino-21,2-metheno-4,7:17,14-dinitrilopyrano[4,3-b]azacyclononadecine-16-propanoic acid, 5-ethyl-10-[1-[1-(3,7,8,12,13,17,18-heptaethyl-21H,23H-porphin-2-yl)ethoxy]ethoxy]-1,16,18,20-tetrahydro-6,11,15,22-tetramethyl-18,20-dioxo-, (15S,16S)-(9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 21H,23H-Porphine-2,20-dicarboxylic acid, 18-(2-carboxyethyl)-7-ethyl-12-[1-[1-(3,7,8,12,13,17,18-heptaethyl-21H,23H-porphin-2-yl)ethoxy]ethyl]-17,18-dihydro-3,8,13,17-tetramethyl-, cyclic 2,20-anhydride

FS STEREOSEARCH

MF C69 H78 N8 O6

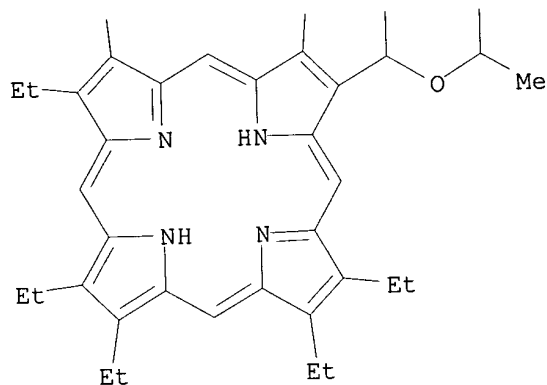
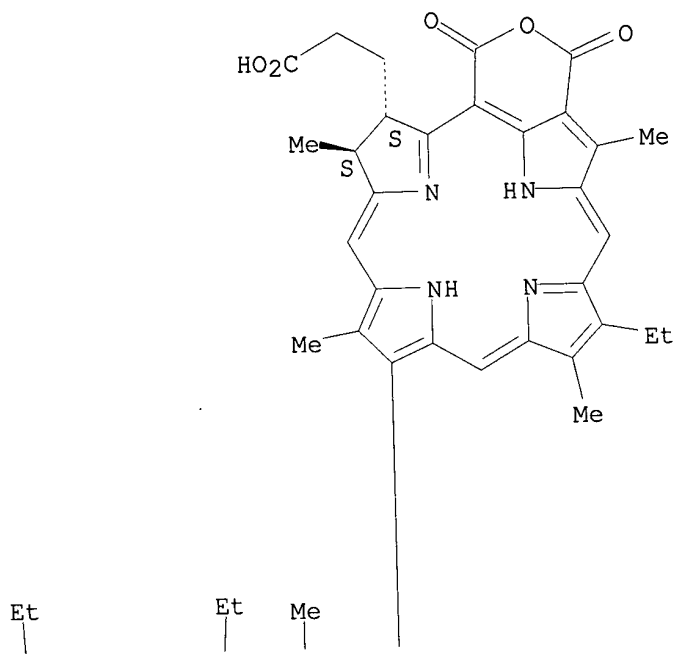
SR CA

LC STN Files: CA, CAPLUS

DT.CA Caplus document type: Journal

RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2005 ACS on STN

RN 166663-13-4 REGISTRY

CN 15H-9,12-Imino-21,2-metheno-4,7:17,14-dinitrilopyrano[4,3-b]azacyclononadecine-16-propanoic acid, 5-ethyl-1,16,18,20-tetrahydro-10-(1-hydroxyethyl)-6,11,15,22-tetramethyl-18,20-dioxo-, (15S,16S)- (9CI)
(CA INDEX NAME)

OTHER CA INDEX NAMES:

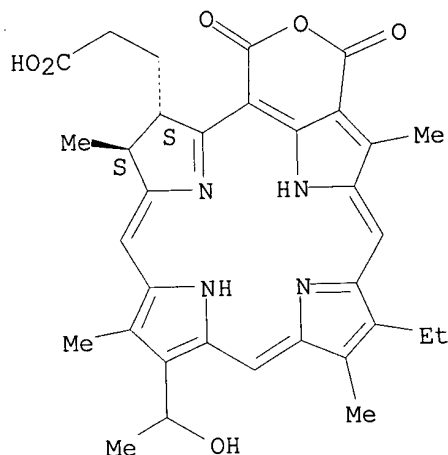
CN 21H,23H-Porphine-2,20-dicarboxylic acid, 18-(2-carboxyethyl)-7-ethyl-17,18-dihydro-12-(1-hydroxyethyl)-3,8,13,17-tetramethyl-, cyclic 2,20-anhydride

FS STEREOSEARCH

MF C33 H34 N4 O6

SR CA
 LC STN Files: CA, CAPLUS
 DT.CA CAPLUS document type: Journal
 RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties); RACT
 (Reactant or reagent)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
	169.12	169.33
FULL ESTIMATED COST		

FILE 'REGISTRY' ENTERED AT 13:37:15 ON 25 JAN 2005
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STRUCTURE FILE UPDATES: 23 JAN 2005 HIGHEST RN 819046-01-0
 DICTIONARY FILE UPDATES: 23 JAN 2005 HIGHEST RN 819046-01-0

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

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Experimental and calculated property data are now available. For more
 information enter HELP PROP at an arrow prompt in the file or refer
 to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L4 1 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L5 1 179185-48-9/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL CAPLUS

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.51	169.84

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 13:37:20 ON 25 JAN 2005
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FILE COVERS 1907 - 25 Jan 2005 VOL 142 ISS 5
FILE LAST UPDATED: 24 Jan 2005 (20050124/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L5

L6 1 L5

=> DIS L6 1

THE ESTIMATED COST FOR THIS REQUEST IS 1.10 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1996:418657 CAPLUS
DN 125:114373
TI Synthesis and properties of new chlorin and bacteriochlorin photosensitizers
AU Mironov, Andrei F.
CS Lomonosov State Academy Fine Chemical Technology, Moscow, 117571, Russia
SO Proceedings of SPIE-The International Society for Optical Engineering (1996), 2625(Photochemistry: Photodynamic Therapy and Other Modalities), 23-32

CODEN: PSISDG; ISSN: 0277-786X

=> FIL STNGUIDE

FILE 'STNGUIDE' ENTERED AT 13:37:39 ON 25 JAN 2005

FILE CONTAINS CURRENT INFORMATION.

=> FIL CAPLUS

FILE 'CAPLUS' ENTERED AT 13:39:42 ON 25 JAN 2005

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FILE COVERS 1907 - 25 Jan 2005 VOL 142 ISS 5

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> FIL REGISTRY

FILE 'REGISTRY' ENTERED AT 13:39:53 ON 25 JAN 2005

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```
STRUCTURE FILE UPDATES: 23 JAN 2005 HIGHEST RN 819046-01-0
DICTIONARY FILE UPDATES: 23 JAN 2005 HIGHEST RN 819046-01-0
```

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> SET TERMSET E#

SET COMMAND COMPLETED

=> DEL SEL Y

=> SEL L4 3 RN

E1 THROUGH E1 ASSIGNED

=> S E1/RN

L7 1 166663-13-4/RN

=> SET TERMSET LOGIN

SET COMMAND COMPLETED

=> FIL CAPLUS

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.51	172.53

FILE 'CAPLUS' ENTERED AT 13:39:58 ON 25 JAN 2005
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FILE COVERS 1907 - 25 Jan 2005 VOL 142 ISS 5
FILE LAST UPDATED: 24 Jan 2005 (20050124/ED)

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> S L7

L8 2 L7

=> DIS L8 1

THE ESTIMATED COST FOR THIS REQUEST IS 1.10 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L8 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1996:418657 CAPLUS
DN 125:114373
TI Synthesis and properties of new chlorin and bacteriochlorin
photosensitizers
AU Mironov, Andrei F.
CS Lomonosov State Academy Fine Chemical Technology, Moscow, 117571, Russia
SO Proceedings of SPIE-The International Society for Optical Engineering
(1996), 2625(Photochemistry: Photodynamic Therapy and Other Modalities),
23-32
CODEN: PSISDG; ISSN: 0277-786X
PB SPIE-The International Society for Optical Engineering
DT Journal
LA English

=> FIL STNGUIDE
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
1.55	174.08

FULL ESTIMATED COST

FILE 'STNGUIDE' ENTERED AT 13:40:47 ON 25 JAN 2005
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AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Jan 21, 2005 (20050121/UP).

=> FIL CAPLUS
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.18	174.26

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 13:42:28 ON 25 JAN 2005
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